

ABSTRACT

The present invention relates to mammalian receptors, particularly human pheromone receptors and the expression of these receptors in selected cells and tissues. More specifically, the invention encompasses novel human vomeronasal organ (VNO) receptors. The invention contemplates nucleic acid molecules and fragments thereof encoding human pheromone receptors and agents that specifically bind to the polypeptides comprising human pheromone receptors. The invention also encompasses vectors and cells for producing the nucleic acid molecules encoding human pheromone receptors as well as vectors and cells for expressing receptor polypeptides. The invention further relates to methods for isolation, characterization and detection of the nucleic acid molecules, polypeptides, and agents that bind to the receptors. The invention also encompasses diagnosis and treatment of diseases or disorders related to the aberrant expression of the human pheromone receptors hV3R1 and hV3R8.

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